

Title (en)

Operating position select device adapted for automatic transmission

Title (de)

Positionwahleinrichtung für ein automatisches Getriebe

Title (fr)

Dispositif de sélection de position d'opération pour une transmission automatique

Publication

**EP 1767830 A1 20070328 (EN)**

Application

**EP 06121066 A 20060921**

Priority

JP 2005273023 A 20050921

Abstract (en)

An operating position select device (100) has a first connecting member (13) connected with a select lever (11), a mode shift unit (500) for shifting operation modes of an automatic transmission (5), a second connecting member (17) connected with the mode shift unit (500), the second connecting member (17) having a relative movable mechanism (171, 131, 32a, 32b; 8c, 8d) for allowing a limited movement relative to the first connecting member (13) and an assist actuator (2; 97), position sensing means (61, 62) sensing at least two positions among an operating position, an actuation position and their relative position, and a control unit (3) controlling the actuator (2; 97) based on the relative position. The control unit (3) has assist force suppressing means for suppressing the assist force when an assist control of the actuator (2; 97) is started based on a relative position variation due to a variation of the actuation position.

IPC 8 full level

**F16H 61/32** (2006.01); **F16H 59/10** (2006.01); **F16H 61/24** (2006.01)

CPC (source: EP US)

**F16H 59/10** (2013.01 - EP US); **F16H 61/32** (2013.01 - EP US); **F16H 61/24** (2013.01 - EP US); **F16H 2061/323** (2013.01 - EP US); **F16H 2061/326** (2013.01 - EP US); **Y10T 74/20018** (2015.01 - EP US)

Citation (applicant)

- JP 2003097694 A 20030403 - JATCO LTD
- EP 1571069 A1 20050907 - PEUGEOT CITROEN AUTOMOBILES SA [FR]

Citation (search report)

- [X] EP 1517069 A1 20050323 - CALSONIC KANSEI CORP [JP]
- [A] JP H0587237 A 19930406 - FUJI UNIVANCE KK
- [A] DE 19900820 A1 19990909 - LUK GETRIEBE SYSTEME GMBH [DE]

Cited by

DE102007037437A1; EP2023017A3; EP2023020A1

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1767830 A1 20070328**; JP 2007085411 A 20070405; US 2007068304 A1 20070329

DOCDB simple family (application)

**EP 06121066 A 20060921**; JP 2005273023 A 20050921; US 51604906 A 20060906